

App. No. 10/089409
Office Communication Dated October 7, 2004
Response Dated October 22, 2004

REMARKS

Reconsideration is respectfully requested in view of the following remarks.

Please note the initial PCT/JP00/07796 application was filed with original claims 1-17, a copy as originally filed is enclosed for the Examiners reference. Claims 15-17 were canceled in the Amendment under PCT Article 19 (replacement page 31). In addition claims 1, 2, 3, 4 and 11 were amended and claim 7 was canceled in the Amendment under PCT Article 34 (replacement pages 29, 30 and 30/1). Copies of the translations of the above noted documents, which were filed with the national stage entry, are enclosed Examiners reference. Claims 1-6 and 8-14 are pending.

The Examiner asserts claims 13 and 14 were not listed in the "amended claims" filed on March 28, 2002 and further states that claim 12 is independent. Applicants respectfully draw the Examiner's attention to claims 1-17 as originally filed in PCT/JP00/07796. The originally filed claim set includes original claims 13 and 14 and a complete version of original claim 12, which depends from "any of claims 1 to 4". As stated above, PCT/JP00/07796 was amended under PCT Article 19, in which original claims 15-17 were canceled. PCT/JP00/07796 was further amended under PCT Article 34, in which original claims 1, 2, 3, 4 and 11 were amended and original claim 7 was canceled. Please note that replacement pages, 29, 30 and 30/1, for the Article 34 amendment, reflect only those claims listed on pages 29 and 30 of the originally filed claim set, in which claim 12 begins at pg. 30, line 34 and continues onto pg. 31, ending at

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line 3. Thus, since claims 12-17 were not subject to the Article 34 amendment, replacement pages 31 and 32 were not issued. Applicants respectfully request the PCT Article 19 and PCT Article 34 amendments be considered.


In view of the above, the July 14, 2004 Amendment is correct and the October 7, 2004 objection should be withdrawn. Any questions or concerns regarding this communication can be directed to the undersigned attorney, Douglas P. Mueller, Reg. No. 30,300, at (612)371.5237.

Respectfully submitted,

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Dated: October 22, 2004

By 
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DPM:smm

Original Claims 1-17
PCT/JP00/07796

CLAIMS

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1. An optical disk as a read-only optical disk comprising an optical disk substrate of a predetermined thickness having a light incidence surface on one face, in which at least a pit information surface and a protective layer are formed in this order on a side of the other face opposed to the light incidence surface,

wherein the protective layer is a protective layer suited for a floating-type magnetic head used for a magnetic field modulation type magneto-optical disk or a protective layer suited for a sliding-type magnetic head used for the magnetic field modulation type magneto-optical disk.

2. An optical disk as a read-only optical disk comprising an optical disk substrate of a predetermined thickness having a light incidence surface on one face, in which at least a pit information surface, a printing layer, and a protective layer are formed in this order on a side of the other face opposed to the light incidence surface,

wherein the protective layer is a protective layer suited for a floating-type magnetic head used for a magnetic field modulation type magneto-optical disk or a protective layer suited for a sliding-type magnetic head used for the magnetic field modulation type magneto-optical disk.

3. An optical disk as a partially recorded optical disk comprising an optical disk substrate of a predetermined thickness having a light incidence surface on one face, in which at least a layer, divided into a pit information surface region and a magneto-optical recording surface region, and a protective layer are formed in this order on a side of the other face opposed to the light incidence surface,

wherein the protective layer is a protective layer suited for a floating-type magnetic head used for a magnetic field modulation type magneto-optical disk or a protective layer suited for a sliding-type magnetic head used for the magnetic field modulation type magneto-optical disk.

4. An optical disk as a partially recorded optical disk comprising an optical disk substrate of a predetermined thickness having a light incidence surface on one face, in which at least a layer, divided into a pit information surface region and a magneto-optical recording surface region, a printing layer, and a protective layer are formed in this order on a side of the other face opposed to the light incidence surface,

wherein the protective layer is a protective layer suited for a

Original Claims 1-17
PCT/JP00/07796
(2)

floating-type magnetic head used for a magnetic field modulation type magneto-optical disk or a protective layer suited for a sliding-type magnetic head used for the magnetic field modulation type magneto-optical disk.

5. The optical disk according to any of claims 1 to 4, wherein the optical disk allows recording and/or reproduction to be performed by an optical disk device so that compatibility with the magnetic field modulation type magneto-optical disk is attained.
6. The optical disk according to any of claims 1 to 4, wherein the optical disk is housed in an optical disk cartridge having an opening formed so that the light incidence surface and the surface of the protective layer are exposed.
7. The optical disk according to any of claims 1 to 4, wherein the protective layer is formed of an ultraviolet curable resin coated with a silicone oil.
8. The optical disk according to claim 1 or 2, wherein the protective layer of the read-only optical disk is formed of an ultraviolet curable resin coated with a silicone oil having a viscosity lower than that of a silicone oil used for a protective layer of the magnetic field modulation type magneto-optical disk.
9. The optical disk according to any of claims 1 to 4, wherein identification data regarding the protective layer is recorded on the optical disk.
10. The optical disk according to claim 6, wherein identification data regarding the protective layer is recorded on the optical disk cartridge.
11. An optical disk as a magnetic field modulation type magneto-optical disk comprising an optical disk substrate of a predetermined thickness having a light incidence surface on one face, in which at least a magneto-optical recording surface, a printing layer, and a protective layer are formed in this order on a side of the other face opposed to the light incidence surface,
- wherein the protective layer is a protective layer suited for a floating-type magnetic head or a protective layer suited for a sliding-type magnetic head.
12. An optical disk device comprising a floating-type or a sliding-type magnetic head and an optical head, the optical disk device allowing recording and/or reproduction with respect to a magnetic field modulation type magneto-optical disk,

Original Claims 1-17
PCT/JP00/07796

(3)

wherein recording and/or reproduction with respect to the optical disk according to any of claims 1 to 4 are(is) performed so that compatibility with the magnetic field modulation type magneto-optical disk is attained.

13. An optical disk device comprising a floating-type or a sliding-type magnetic head and an optical head, the optical disk device performing recording and/or reproduction with respect to a magnetic field modulation type magneto-optical disk and the optical disk according to any of claims 1 to 4,

- 10 wherein the magnetic head is retracted when mounting the magneto-optical disk and the optical disk, and the magnetic head is allowed to slide or float when performing recording and reproduction with respect to the magneto-optical disk and the optical disk.

14. An optical disk device comprising a floating-type or a sliding-type magnetic head and an optical head, the optical disk device performing recording and/or reproduction with respect to a magnetic field modulation type magneto-optical disk and the optical disk according to any of claims 1 to 4,

- 20 wherein the magnetic head is retracted when mounting the magneto-optical disk and the optical disk, the magnetic head is separated from the magneto-optical disk when performing reproduction with respect to the magneto-optical disk, and the magnetic head is allowed to slide or float when performing recording with respect to the magneto-optical disk and recording and reproduction with respect to the optical disk.

- 25 15. An optical disk device comprising a floating-type or a sliding-type magnetic head and an optical head, the optical disk device performing recording or reproduction while allowing the magnetic head to float or slide on an optical disk,

- 30 wherein the optical disk device further comprising: a detecting unit for detecting a floating or a sliding state of the magnetic head when the magnetic head is floating or sliding on the optical disk; and

- 35 a controlling unit for bringing the floating or the sliding state to a halt or giving a predetermined warning when the floating or the sliding state is judged to be abnormal based on a result obtained by the detecting unit.

16. The optical disk device according to claim 15, wherein the detecting

Original Claim 1-17
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unit detects a force exerted on the magnetic head by the optical disk.

17. The optical disk device according to claim 15, wherein after bringing the floating or the sliding state to the halt, the controlling unit further stops the rotation of the optical disk or ejects the optical disk.

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Amendment
Article 19

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wherein recording and/or reproduction with respect to the optical disk according to any of claims 1 to 4 are(is) performed so that compatibility with the magnetic field modulation type magneto-optical disk is attained.

13. An optical disk device comprising a floating-type or a sliding-type magnetic head and an optical head, the optical disk device performing recording and/or reproduction with respect to a magnetic field modulation type magneto-optical disk and the optical disk according to any of claims 1 to 4,

- 10 wherein the magnetic head is retracted when mounting the magneto-optical disk and the optical disk, and the magnetic head is allowed to slide or float when performing recording and reproduction with respect to the magneto-optical disk and the optical disk.

14. An optical disk device comprising a floating-type or a sliding-type magnetic head and an optical head, the optical disk device performing recording and/or reproduction with respect to a magnetic field modulation type magneto-optical disk and the optical disk according to any of claims 1 to 4,

- 20 wherein the magnetic head is retracted when mounting the magneto-optical disk and the optical disk, the magnetic head is separated from the magneto-optical disk when performing reproduction with respect to the magneto-optical disk, and the magnetic head is allowed to slide or float when performing recording with respect to the magneto-optical disk and recording and reproduction with respect to the optical disk.

15. (Cancelled)

16. (Cancelled)

17. (Cancelled)

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Written Amendment
(Amendment based on Section 11)

To Mr. Shin BABA, Examiner at the Patent Office

1. Identification of the International Application
PCT/JP00/07796

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4. Object of Amendment: Claims

5. Contents of Amendment

- (1) We amend claims 1, 2, 3, 4, and 11, respectively, as shown in separate sheets.
(2) We cancel claim 7 as shown in a separate sheet.

6. List of appended documents

New pages 29, 30, and 30/1 (translation: pages 29, 30, and 30/1), Claims, one copy each

Amendment under
Article 34
(2)

CLAIMS

1. (Amended) An optical disk as a read-only optical disk comprising an optical disk substrate of a predetermined thickness having a light incidence surface on one face, in which at least a pit information surface and a protective layer are formed in this order on a side of the other face opposed to the light incidence surface,
- 5 wherein the protective layer is formed of an ultraviolet curable resin coated with a silicone oil, and
- 10 the protective layer is a protective layer suited for a floating-type magnetic head used for a magnetic field modulation type magneto-optical disk or a protective layer suited for a sliding-type magnetic head used for the magnetic field modulation type magneto-optical disk.
2. (Amended) An optical disk as a read-only optical disk comprising an optical disk substrate of a predetermined thickness having a light incidence surface on one face, in which at least a pit information surface, a printing layer, and a protective layer are formed in this order on a side of the other face opposed to the light incidence surface,
- 15 wherein the protective layer is formed of an ultraviolet curable resin coated with a silicone oil, and
- 20 the protective layer is a protective layer suited for a floating-type magnetic head used for a magnetic field modulation type magneto-optical disk or a protective layer suited for a sliding-type magnetic head used for the magnetic field modulation type magneto-optical disk.
- 25 3. (Amended) An optical disk as a partially recorded optical disk comprising an optical disk substrate of a predetermined thickness having a light incidence surface on one face, in which at least a layer, divided into a pit information surface region and a magneto-optical recording surface region, and a protective layer are formed in this order on a side of the other face
- 30 opposed to the light incidence surface,
- wherein the protective layer is formed of an ultraviolet curable resin coated with a silicone oil, and
- the protective layer is a protective layer suited for a floating-type magnetic head used for a magnetic field modulation type magneto-optical disk or a protective layer suited for a sliding-type magnetic head used for the magnetic field modulation type magneto-optical disk.
- 35 4. (Amended) An optical disk as a partially recorded optical disk

Amendment under
Article 34
(3)

comprising an optical disk substrate of a predetermined thickness having a light incidence surface on one face, in which at least a layer, divided into a pit information surface region and a magneto-optical recording surface region, a printing layer, and a protective layer are formed in this order on a side of the other face opposed to the light incidence surface,

wherein the protective layer is formed of an ultraviolet curable resin coated with a silicone oil, and

the protective layer is a protective layer suited for a floating-type magnetic head used for a magnetic field modulation type magneto-optical disk or a protective layer suited for a sliding-type magnetic head used for the magnetic field modulation type magneto-optical disk.

5. The optical disk according to any of claims 1 to 4, wherein the optical disk allows recording and/or reproduction to be performed by an optical disk device so that compatibility with the magnetic field modulation type magneto-optical disk is attained.

6. The optical disk according to any of claims 1 to 4, wherein the optical disk is housed in an optical disk cartridge having an opening formed so that the light incidence surface and the surface of the protective layer are exposed.

7. (Cancelled)

8. The optical disk according to claim 1 or 2, wherein the protective layer of the read-only optical disk is formed of an ultraviolet curable resin coated with a silicone oil having a viscosity lower than that of a silicone oil used for a protective layer of the magnetic field modulation type magneto-optical disk.

9. The optical disk according to any of claims 1 to 4, wherein identification data regarding the protective layer is recorded on the optical disk.

10. The optical disk according to claim 6, wherein identification data regarding the protective layer is recorded on the optical disk cartridge.

11. (Amended) A magnetic field modulation type magneto-optical disk comprising an optical disk substrate of a predetermined thickness having a light incidence surface on one face, in which at least a magneto-optical recording surface, a printing layer, and a protective layer are formed in this order on a side of the other face opposed to the light incidence surface,

wherein the protective layer is a protective layer suited for a floating-type magnetic head or a protective layer suited for a sliding-type

Amendment under
Article 34

(4)

magnetic head.

12. An optical disk device comprising a floating-type or a sliding-type magnetic head and an optical head, the optical disk device allowing recording and/or reproduction with respect to a magnetic field modulation type magneto-optical disk,
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